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TITLE: Acustimulation for the Control of Chemotherapy-Induced

Nausea in Breast Cancer Patients

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three-arm clinical tria	al testing the useful	ness of an acustimula	ation wrist band for the			
relief of chemotherapy-induced nausea and vomiting as an adjunct to standard 5-HT3						
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the inside of the wrist	t and sham location: be	and worn on the outs:	de of the wrist) put on			
the acustimulation wright	st band prior to the a	dministration of cher	notherapy and wear it for			
five days. The use of	an active acustimulat	ion band in the sham	condition should			
effectively control for	effectively control for both the placebo effect and for any effect due to the release of					
endorphins and will therefore speak directly to the efficacy of acupuncture point stimulation. In addition, the experiment has a "no band" condition for additional						
comparisons. The study is proceeding on target with 40 of the targeted 107 patients having accrued thus far. We anticipate no problems in completing the study.						
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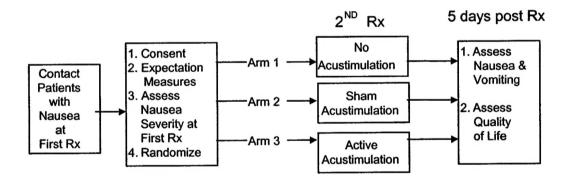
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# Introduction

The current experiment examines the efficacy of acustimulation (mild electrical stimulation to an acupuncture point) to the Neiguan (P6) acupuncture point (located on the ventral surface of the wrist) in controlling chemotherapy-induced NV. In traditional Chinese medicine, this acupuncture point is associated with NV relief. It is a randomized three-arm clinical trial testing the usefulness of an acustimulation wrist band for the relief of chemotherapy-induced nausea and vomiting as an adjunct to standard 5-HT<sub>3</sub> antiemetics. Patients who experienced nausea at their first treatment are eligible to participate. Patients in the two treatment groups (i.e., correct location: band worn on the inside of the wrist and sham location: band worn on the outside of the wrist) put on the acustimulation wrist band prior to the administration of chemotherapy and wear it for five days. The use of an active acustimulation band in the sham condition should effectively control for both the placebo effect and for any effect due to the release of endorphins and will therefore speak directly to the efficacy of acupuncture point stimulation. In addition, the experiment has a "no band" condition for additional comparisons.

#### STUDY SCHEMA



**Hypothesis:** Acustimulation to the Neiguan (P6) acupuncture point will be efficacious in controlling both delayed and acute chemotherapy-induced NV.

**Primary Question:** Can an acustimulation wrist band reduce the nausea and emesis that occurs on the day of chemotherapy treatment (acute) and that occurring on days 2 - 5 following treatment (delayed)?

Secondary Question: Is any effectiveness found for acustimulation related to patient expectancies of the effectiveness of the wrist band?

# **Body**

Status of tasks listed in the Statement of Work:

Task 1: Month 1: Prepare treatment protocols and obtain IRB approval

Status: Completed, the study is approved and open to accrual at four locations. Two of the sites, Highland Hospital Cancer Center and Strong Memorial Hospital Cancer Center, are under the governing IRB at Strong Memorial Hospital. The remaining two, Rochester General Hospital Cancer Center and the Genesee Hospital Cancer Center, are under the governing IRB of VIA Health. As requested by Dr. Moore, a copy of the

Genesee Hospital consent form is attached.

Task 2: Month 1: Present study protocol to clinic staffs at all study sites.

Status: Completed, the study has been presented to the clinic staff at four locations.

Task 3: Month 1: Prepare intervention materials and questionnaires.

Status: Completed. A copy of the one-page instruction sheet that we give patients and the

study measures are attached.

Task 4: Months 1-34: Collect preliminary data on subjects screened for entry into the

randomized study

Status: Ongoing. As part of our accrual process, we examine clinic schedules at the Highland

Hospital Cancer Center, the Strong Memorial Hospital Cancer Center and the

Rochester General Hospital Cancer Center in order to identify patients who have had one cycle of chemotherapy and who may be eligible for our study. We then contact the patient's oncologist for permission to talk to the patient about the study. At the Genesee Hospital, we rely on the nursing staff to identify potentially eligible patients.

Task 5: Months 1-34: Randomize eligible patients who have signed a consent form to group

assignment (107 patients).

Status: Ongoing, 38 patients have been accrued and randomized to the protocol. In addition,

data from two patient who were recruited prior to commencement of the experiment in order to test study procedures will be included in the analyses as no changes to study

procedures were made.

Task 6: Months 1-34: Carry out the study.

Status: Ongoing

Task 7: Months 1-34: Monitor daily clinic schedules at all study sites (oncology departments

in three Rochester hospitals) to insure timely accrual of subjects for the study.

Status: Ongoing

Task 8: Months 1-34: Review progress of study and address any problems as they arise.

Status: Ongoing, no problems have arisen.

Task 9: Months 1-34: Complete required annual reports.

**Status**: Ongoing

Task 10: Months 1-34: Edit, verify and input data as they are collected.

Status: Ongoing

Task 11: Months 35-36: Analyze results according to data analysis plan.

Status: No analyses have been made thus far

Task 12: Months 35-36: Write final report and complete fiscal accounting.

Status: Not applicable thus far

# **Key Research Accomplishments**

Not applicable thus far

# **Reportable Outcomes**

Not applicable thus far

# **Conclusions**

Study is proceeding on target and we are encountering no unexpected problems.

### **Reliefband Positions**

**Inside wrist position**: The center of band should be approximately 3 fingers width from the crease of the wrist.

Outside wrist position: The center of band should be approximately 2 fingers width from the crease of the wrist (where a watch is normally worn).

# Instructions for using the Reliefband

- Put a thin film of conductivity gel on the area of the wrist that will be touching the electrodes
  on the Reliefband. The area covered should be about the size of a quarter and in the middle of
  the wrist. The gel easily washes off and can be reapplied as necessary. Clean the electrodes
  with Kleenex whenever the gel is reapplied. Avoid using too much gel because this can
  reduce the electrical conductivity.
- 2. The Reliefband can be worn on either wrist or alternated between wrists as desired. Please do not change between the inside wrist and the outside wrist positions unless instructed to do so by the study manager.
- 3. Take care not to get the Reliefband wet.
- 4. You may adjust the intensity of the Reliefband using the dial to any of the five settings.
- 5. Please keep the Reliefband in a safe place during times you are not wearing it. It is very fragile and we have only a limited number of them. Please do not let any children handle it.
- 6. Call Joe Roscoe, Ph.D. or Sara Matteson, Psy.D. if you have questions about any aspect of the study or have problems with the Reliefband.

Joe: 275-9962 office

Sara: 275-2788 office

872-3562 home

- 7. Call your doctor or nurse as you normally would if you have medically related problems or questions.
- 8. Take the Reliefband off if it is causing you any problems.
- 9. Do not let anyone with a pacemaker wear the Reliefband.

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# PATIENT EXPECTATION QUESTIONNAIRE

Please answer these questions prior to your chemotherapy treatment (but after the wrist band is in position for those patients randomized to wear a wrist band). Answer the questions based on what you think will happen, not on what you hope will happen.

			,			
1. F	Iow would you des	cribe the NAUSE	EA at its worst a	fter your first chem	otherapy treatm	ent?
	O Very mild	or none at all		O Severe		
	Mild			O Very severe		
	Moderate			O Intolerable		
He ple	ere is a list of side ease circle one nur	effects that som nber that best in	e patients have idicates your fo	with some chemo eelings:	therapies. For	each side effect,
		am certain I will NOT have this	1			I am certain I WILL have this
2.	nausea	1	2	3	4	5
3.	vomiting	1	2	3	4	5
4.	fatique	1	2	3	4	5
5.	sleep problems	1	2	3	4	5
6.	What do you think	your level of NA	USEA will be a	t its worst after this	s treatment?	
	O Very mild o	or none at all		O Severe	,	
	O Mild			O Very severe		
	O Moderate			O Intolerable		
7. \	What do side effect	s mean to you re	garding the effe	ct of the treatment	on the disease?	
		ts mean that the o				
		ts mean that the o		working		
	Side effect	ts have no partici	ilar meaning			

Answer the next question only if you have been randomized to wear a wrist band.

8. How effective do you think the wrist band you are wearing will be in helping to relieve or prevent treatment-related nausea and vomiting?

Not at all Effective

Very Effective

1

2

3

4

5



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# **ACUPRESSURE STUDY**

U8199

Pati	ent	I.D.

O No band
O Outside of wrist
O Inside of wrist

# ON STUDY DATA

Please answer the following questions about you	yourself.
---	-----------

have compared to other patients receiving the same treatments?

O more O less O about the same amount

						i.			
1.	Marital S	tatus:	O Married	O Divorced	O Separated	O Single	O Widow	ved	
2.	Gender:	O Male	O Female						
3.	Age								
4.	Race: O W	/hite	O Hispanic	O Black	O Asian	O American	Indian	O Other	
5.	What has	your av	erage daily	alcohol cons	sumption bee	n over the p	ast year?		
	O less tha	ın 1 drink	. 0	1 drink	O 2 drinks	O 3 drinks	04	or more drinks	
6.	Are you	susceptil	ble to motic	on sickness?	O yes O	no			
7.	Did you	experien	ce pregnanc	y-related mor	ning sickness	? O yes	O no	O not applicable	
8.	Did you l	have mo	rning sickno	ess that inclu	ded vomiting	g? O yes	o no	O not applicable	
9.	In general,	, are you	more suscep	tible to nausea	a than your frie	ends and famil	y?		
	O yes	O no	O about th	e same suscep	tibility				
10	. In general	l, are you	more suscep	otible to <b>vomit</b>	ing than your	friends and far	mily?		
	O yes	O <sub>no</sub>	O about the	e same suscept	tibility				
11				yourself, how siving the same		nerapy-related	nausea do	you think you will h	ave
	O more	O less	O about th	e same amoun	it				
12	. Based up	on what y	you know of	yourself, how	much chemoth	nerapy-related	vomiting o	lo you think you will	

Pati	ent	I.D.

DATE	/		/
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Please answer the following questions about yourself. Be as honest as you can throughout, and try not to let your response to one question influence your responses to other questions. There are no right or wrong answers.

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1. In uncertain times, I usually expect the best.	0	0	0	0	0
2. It's easy for me to relax.	0	0	0	0	0
3. If something can go wrong for me, it will.	0	0	0	0	0
4. I'm always optimistic about my future.	0	0	0	0	0
5. I enjoy my friends a lot.	, 0	0	0	0	0
6. It's important for me to keep busy.	0	0	- O	0	0
7. I hardly ever expect things to go my way.	0	0	0	0	0
8. I don't get upset too easily.	0	0	0	0	0
9. I rarely count on good things happening to me.	0	0	0	0	0
10. Overall, I expect more good things to happen to me than bad.	0	0	0	0	0



L	

Patient I.D.

DATE	/	r	/	
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# **FACT-G**

Below is a list of statements that other people with your illness have said are "important." Circle one number per line to indicate how true each statement has been for you during the past 5 days.

During the past 5 days:	Not at all	A little bit	Somewhat	Quite a bit	Very Much
PHYSICAL WELL-BEING	W.I.		Comownat		
1) I have a lack of energy		2	3	4	5
2) I have nausea	1	2	3	4	5
3) I have trouble meeting the needs of my family		2	3	4	5
4) I have pain	1	2	3	4	5
5) I am bothered by the side effects of treatment		2	3	4	5
6) In general, I feel sick	1	2	3	4	5
7) I am forced to spend time in bed	1	2	3	4	5
8) How much does your PHYSICAL WELL-BEING effect	t your quali	ty of life?			
Not Much 1 2 3 4 5	6	7 8	9	10 Ver	y much so

U8199

# **ACUPRESSURE STUDY**

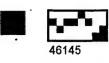




# FACT-G (continued)

Below is a list of statements that other people with your illness have said are "important." Circle one number per line to indicate how true each statement has been for you during the past 5 days.

During the p	ast 5	days:			Not at	A little	Somewhat	Quite a bit	Very Much
SOCIAL/FA	MILY	WELL-BI	EING		an	Sit	Joinewhat	Dit	Much
9) I feel distar	ıt from	ı my friei	nds			2	3	4	5
10) I get emot	ional.	support fi	rommy fam	ily	1	2	3	4	5
11) I get supp	ort fro	m my fri	ends and no	eighbors	1	2	3	4	5
12) My family	has a	iccepted i	my illness .		. 1	2	3	4	5
				ness is poor		2	3	4	5
		, ,		upport)	1	2	3	4	5
15) I am satisf	fied w	ith my se	x life		. 1	2	3	4	5
16) How mucl	h does	your SO	CIAL/FAMIL	YWELL-BEING	effect you	r quality of l	ife?		
Not Much	1	2	3	4 5	6	7 8	9	10 Ver	y much so



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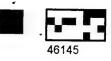
# FACT-G (continued)

Below is a list of statements that other people with your illness have said are "important." Circle one number per line to indicate how true each statement has been for you during the past 5 days.

During the p	ast 5 d	ays:				Not at	A little bit	Somewhat	Quite a bit	Very Much
RELATIONSHIP WITH DOCTOR					•••	<del></del>	Comewhat			
17) I have con	ıfidence	e in my	loctor(s)	)	•••••••	1	2	3	4	5
18) My doctor	r is ava	ilable to	answer	my quest	tions	1	2	3	4	5
19) How muc	h does	your RE	LATIONS	SHIP WITH	H YOUR	DOCTOR	effect your	quality of life	?	
Not Much	1	2	3	4	5	6	7 8	9	10 Ve	ry much so

During the past 5 days:  EMOTIONAL WELL-BEING	Not at all	A little bit	Somewhat	Quite a bit	Very Much
20) I feel sad	1	2	3	4	5
21) I am proud of how I am coping with my illness	1	2	3	4	5
22) I am losing hope in the fight against my illness	1	2	3	4	5
23) I feel nervous	1	2	3	4	5
24) I worry about dying	1	2	3	4	5
25) How much does your EMOTIONALWELL-BEING effect	ct your qua	ality of life?			
					_

Very much so 10 3 Not Much



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# FACT-G (continued)

Below is a list of statements that other people with your illness have said are "important." Circle one number per line to indicate how true each statement has been for you during the past 5 days.

During the past 5 days:	Not at	A little		Quite a	Very
FUNCTIONAL WELL-BEING	all	bit	Somewhat	bit	Much
26) I am able to work (include work in home)	. 1	2	3	4	5
27) My work (include work in home) is fulfilling	. 1	2	3	4	5
28) I am able to enjoy life "in the moment"	1	2	3	4	5
29) I have accepted my illness	1	2	3	4	5
30) I am sleeping well	1	2	3	· <b>4</b>	5
31) I am enjoying my usual liesure activity pursuits	1	2	3	4	5
32) I am content with the quality of my life right now	1	2	3	4	5
33) How much does your FUNCTIONAL WELL-BEING eff	fect your q	uality of life	?		
Not Much 1 2 3 4 5	6	7 8	9	10 Very	much so



APLETED//		
DATE COMPLETED_	modayyear	VOMITING
		FIVE-DAY RECORD OF NAUSEA AND VOMITING
		RECORD OF
		FIVE-DAY
	****	Patient I.D.

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	NAUSEA SCALE  1 2 3 4 5 6 7  Not at all Moderately Extremely Nauscated Nauscated
4th Day Following Treatment (day of wk)	
3rd Day Following Treatment (day of wk)	
2nd Day Following Treatment (day of wk)	
lst Day Following Treatment (day of wk)	
Day of Treatment  (day of wk)	How Morning nauseated did you Afternoon feel? Evening Nighttime

Directions: Please tell us how many times you vomited.

Morning	Afternoon		Evening		Nighttime
How	many times did you	vomit?	Enter "0"	if none.	

VOMITING:

Indicate the actual number of times you vomited. REV 7/6/00



# FIVE-DAY RECORD OF ANTI-NAUSEA MEDICATION

Patient I.D.

We are separating anti-nausea medications into 4 types. Please circle the medication name and fill in the boxes to tell us how many Please tell us how many and what types of anti-nausea medication that you took at home during the five days after your treatment. pills or suppositories of each type that you used during each portion of the day. Use the other box under type 4 for non-listed medications.

	Type 1  Granisetron ( Kytril) Ondansetron (Zofran) Mesaylate (Anzemet Tropisetron (Navoban)	Type 2 Prochlorperazine (Compazine)
4th Day Following Treatment	(day of wk)	
3rd Day Following Treatment	(day of wk )	
2nd Day Following Treatment	(day of wk)	
1st Day Following Treatment	(day of wk)	
Day of Treatment	(day of wk)	
	Morning Afternoon Evening Nighttime	Morning Afternoon Evening
	How many Morning pills or suppositories Afternoon of Type 1 did you Evening take?	How many Morning pills or suppositories Afternoon of Type 2 did you Evening take?

Nighttime



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# FIVE-DAY RECORD OF ANTI-NAUSEA MEDICATION (Cont'd.)

We are separating anti-nausea medications into 4 types. Please circle the medication name and fill in the boxes to tell us how many Please tell us how many and what types of anti-nausea medication that you took at home during the five days after your treatment. pills or suppositories of each type that you used during each portion of the day. Use the other box under type 4 for non-listed medications.

	Type 3 Dexamethasone (Decadron)	Type 4  Metochlopramide (Reglan)  Other  (please give name)
4th Day Following Treatment	(day of wk)	
3rd Day Following Treatment	(day of wk)	
2nd Day Following Treatment	(day of wk)	
1st Day Following Treatment	(day of wk)	
Day of Treatment	(day of wk)	
	Morning Afternoon Evening Nighttime	Morning Afternoon Evening Nighttime
	How many Morning pills or suppositories Afternoon of Type 3 did you Evening take? Nighttime	How many Morning pills or suppositories Afternoon of Type 4 did you Evening take?



I.D.
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# FIVE-DAY RECORD (Supplement)

Complete this next section only if you wore the wrist band for this treatment.	Please answer these questions on the fourth day
following your treatment.	

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ii.
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band
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$\dot{ m u}$ l do you think the wrist band was in reducing N/
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. How useful
How

- o Very
- o Somewhat
- o Works a little
- o Doesn't seem to help
- 2. How useful do you think the wrist band was in reducing VOMITING?
- o Very
- o Somewhat
- o Works a little
- O Doesn't seem to help
- 3. How many hours did you wear the wrist band?
- O less than 1

0 1-5

- 05-24, 0
- 0 24-48
- O more than 48
- 4. Based upon your experience with the wrist band at this treatment, would you recommend it to other patients receiving the same chemotherapy?

Strongly Do

Not Recommend

Recommend

Highly

2

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224 Alexander Street Rochester, NY 14607-4055

716 922 6000

# Acustimulation for the Control of Chemotherapy-Induced Nausea in Breast Cancer Patients (U8199)

**Principal Investigators:** 

Peter Bushunow, MD Gary Morrow, Ph.D.

Joseph Roscoe, Ph.D.

# CONSENT\_FORM

# **Introduction**

This consent form describes a research study and what you may expect if you decide to participate. You are encouraged to read this consent form carefully and to ask the person who presents it any further questions you may have before making your decision whether or not to participate.

This study is being offered at the second treatment to cancer patients treated with chemotherapy who experienced either nausea or vomiting after their first treatment.

This form describes the known possible risks and benefits and describes what other choices for care or service are available to you if you do not wish to be in the study. You are completely free to choose whether or not to participate in this study.

# Purpose of the Study

We are studying the effectiveness of acustimulation (electrical stimulation to an acupuncture point) when combined with normal antiemetics (anti-vomiting drugs) to more completely control nausea and vomiting in patients receiving chemotherapy. We also want to see whether there is a relationship between how much nausea and vomiting people expect they will have and the amount they actually experience. A total of 107 subjects are expected to take part in this study.

Witness Initials

Patient Initials

Consent TGH 2-5-01.doc

Page 1 of 4

# **Acustimulation Wrist Band Study**

# **Description of Procedures**

It is not clear at the present time which of the three options in this program is more effective. If you agree to participate in this study, you will be assigned by random selection (like flipping a coin) to one of the three following treatment groups for this chemotherapy treatment only.

**Group 1.** Participants will receive whatever anti nausea drugs their doctor normally prescribes.

Group 2. Participants will receive whatever anti nausea drugs their doctor normally prescribes and will also receive a wrist band that gives mild electrical stimulation to an acupuncture point on the <u>outside</u> of the wrist. (Note: You will be taught how to adjust the intensity of the electrical stimulation before putting on the wrist band. You will be able to set the stimulation to a barely noticeable level or turn it off completely.)

**Group 3.** Participants will receive whatever anti nausea drugs their doctor normally prescribes and will also receive a wrist band that gives mild electrical stimulation to an acupuncture point on the <u>inside</u> of the wrist. (Note: You will be taught how to adjust the intensity of the electrical stimulation before putting on the wrist band. You will be able to set the stimulation to a barely noticeable level or turn it off completely.)

If you are assigned to either group 2 or group 3, you will be asked to put on the wrist band(s) before you receive chemotherapy and to wear it for five days, taking it off only to avoid immersing it in water.

Just before your treatment begins, you will be asked to complete paper and pencil questionnaires that tell about your expectations for treatment-related side effects and how you feel about your illness. You will also be asked to complete a record of your degree of nausea and vomiting after your treatment and a quality of life measure. Filling out the questionnaires will take approximately 20 minutes. You will be given a stamped addressed envelope in which to mail the completed forms back.

## **Notification of Results**

We will send you a letter when the study is complete (around June 1, 2003) letting you know what the results of this study are and what other researchers have learned concerning acustimulation and the most effective location for the acustimulation device.

### **Risks & Discomforts**

The acustimulation wrist band may not be worn if you have a cardiac pacemaker in order to avoid any possible interference with the pacemaker signal. Prolonged use of the

Witness Initials
Consent TGH 2-5-01.doc

Patient Initials

# **Acustimulation Wrist Band Study**

acustimulation wrist band may aggravate sensitive skin. You may alternate wrists, reduce the intensity of the stimulation, or remove the band if problems with skin irritation arise. Mild tingling may be felt in the fingers or elsewhere in the hand when the stimulation intensity is set to a high level. There is no evidence that this sensation is harmful and you can stop it by lowering the stimulation intensity or removing the band.

The device should be worn on the wrist opposite a hand in which an IV is placed; the device should not be immersed in water; the device may interfere with monitoring equipment (e.g., ECG monitors); and it should be kept out of reach the of children since the dial may become a choking hazard if it is removed.

# **Benefits of Participation**

It is not possible to predict whether you will receive any personal benefit from participating in this research study.

# Voluntary Participation

Participation in this study is voluntary. You are free not to take part or to withdraw at any time, for whatever reason, without risking loss of present or future care you would otherwise expect to receive. In the event that you do withdraw from this study, the information you have already provided will be kept in a confidential manner.

# **New Findings**

You will be informed of any new finding which may affect your decision to continue your participation in this research study.

# Circumstances for Leaving the Study

If new scientific developments occur that indicate the treatment is not in your best interest, we will let you know.

# Costs

No compensation for participation will be given. The wrist band will be provided free of charge, but you need to return it to us when the study is over. There are no extra visits or tests associated with this study. All charges for your treatments and tests are the responsibility of you and your insurance company whether or not you participate in this study.

Witness Initials	Patient Initials

Consent TGH 2-5-01.doc

# **Acustimulation Wrist Band Study**

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Date

# Confidentiality of Records

A record of your progress while on the study will be kept in a confidential file at the University of Rochester Cancer Center. While we will make every effort to maintain your confidentiality, it cannot be absolutely guaranteed. Medical records which identify you and the consent form signed by you, may be inspected by the ViaHealth Clinical Investigations Committee, government regulatory agencies and/or representatives of the Uviversity of Rochester Human Subjects Review Board. In addition, because the Department of the Defense is the sponsor of this study, representatives of the U.S. Army Medical Research and Materiel Command are eligible to review research records as part of their responsibility to protect human subjects in research. The results of this research study may be presented at meetings or in publications; however, your identity will not be disclosed in those presentations.

# **Contact Persons**

For more information concerning the research and research-related risks or injury, your physicians and/or oncology nurse can be contacted (716) 922-8800. Contact Joseph Roscoe the study coordinator at (716) 275-9962 for non-medical questions concerning this research. For more information regarding patients' rights in research studies, please call Administration for the Clinical Investigation Committee at 716-922-5640.

I have read the contents of this consent form, asked questions, and received answers

# Signatures/Dates

concerning areas I did not understand. I give my consent to participate in this study by signing this form. I will receive a copy of this form for my records.			
Subject Signature	Print Name	Date	
Permanent address of subject	ct		
Witness Signature	Print Name	Date	
Physician Investigator - I have ve have answered questions complete	rbally presented the consent foely.	rm to the subject and	

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P.I. Signature

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